Remote Control
User Guide

dish NETWORK®

Notes:

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1 Confirm Your Receiver Model *then* Select the Right Key

Remote keys are included in this replacement remote kit.

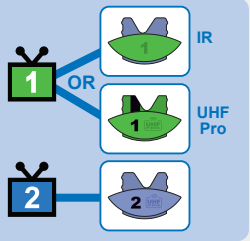
Keys have two sides. Look on both sides to find the right key for your remote.

If your receiver looks like one of these...

Duo ViP® 222 & DuoDVR™ ViP® 622

DuoDVR™ ViP®722

Use the key that looks like this



If your receiver looks like one of these...

DISH JVC IRR

The remote functions as needed in regards to watching your satellite television and VCR. It does not rewind or fast forward while watching a recorded VCR tape.

DISH 6000

DISH 501 & DISH 508 / DISH Player-DVR 510

DISH 721

Use the key that looks like this

If your receiver looks like one of these...

DISH 411 & Solo ViP® 211

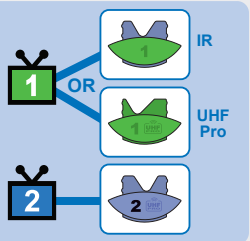
Solo ViP® 211k

Use the key that looks like this

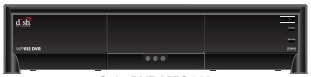
If your receiver looks like this...

DuoDVR™ 522
DuoDVR™ 625

Use the key that looks like this



If your receiver looks like one of these...



Solo DVR ViP® 612

DISH 811

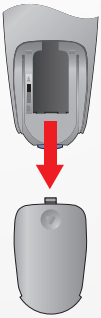
DISH Player-DVR 921

Use the key that looks like this

2 Install Your Selected Key

Note: If you are using the blue TV2 key that comes already installed in your remote, skip this step and proceed with the next step (***Insert the Batteries***).

1



Pull the remote battery cover off.

2

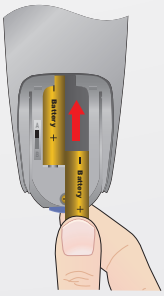
Separate the key from the remote by inserting your thumbnail or a coin in the crease. Remove the key by grasping at the bottom.

3

Insert face up the key you selected on the previous page.

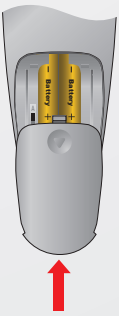
3 Insert the Batteries

1



Insert 4 AAA batteries, making sure to match the plus (+) ends with the plus markings on the battery case.

2



Replace the remote battery cover.

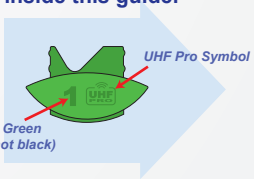
4

Making the Remote Work With Your Receiver

1

If you installed one of these keys, continue with step 2 on this page.

If you installed this key, go to page 14 inside this guide.



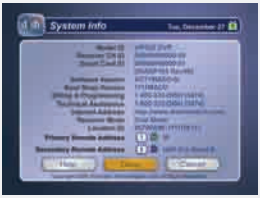
2

If you installed a UHF key, make sure the UHF antenna is installed on the back of the receiver.

3

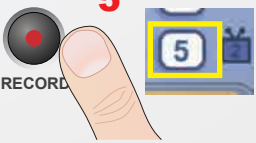
Turn your receiver and TV on, and press SYSTEM INFO on the front of the receiver.

4



Confirm that you see the System Information screen.

5



Press RECORD on your remote. The remote address probably changes on the screen.

6

Using your remote, select Done on the System Info screen to confirm that your remote operates your receiver. If your remote has a blue number 2 key, you may need to go to your remote TV2 location to confirm your remote operates your receiver. If this is not working, go back to step 5.

Program the Remote to Control Your TV

1

Turn your TV on.

2

Press & hold the TV Mode button until all Mode buttons light up.

3

POWER

Press POWER.

4

Press the UP ARROW on the remote repeatedly (about 1 press per second) **until your TV turns off.**

5

Press POUND.
The TV Mode button flashes three times.

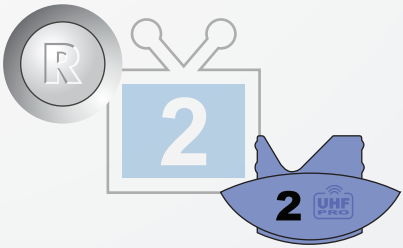
6

Press the POWER button to turn the TV on and try other buttons to make sure the code works. If you want to try another code, start over from step 1.

Programming the Recover Button for TV2 Operation

For TV2 Remote Controls on DuoDVR™ 522, DuoDVR™ 625, Duo ViP® 222, DuoDVR™ ViP® 622 DVR, and DuoDVR™ ViP® 722 DVR Receivers

Programming your RECOVER button allows you to easily regain satellite programming if you accidentally change TV channels or inputs.



1

Press & hold the TV Mode button until all Mode buttons light up.

2

Press STAR.

3

Enter the channel number you tune your TV to when you watch satellite programming.

4

Press POUND.

Use the RECOVER button as described in *If You Lose Your Picture* on the next page (S-6).

Placing Your Remote in Limited Mode

Limited Mode locks out all the TV mode operations except for TV power, Mute, and Volume. This prevents you from accidentally tuning away from satellite programming.

1

Press & hold the TV Mode button until all Mode buttons light up.

2

Press the PAGE UP button.

3

Press POUND.

To take the remote out of Limited Mode, use the PAGE DOWN button instead of the PAGE UP button in step 2.

If You Lose Your Picture

(How to Use the RECOVER Button)

Use the RECOVER button to get back to watching satellite programming if you accidentally change channels or inputs on your TV.

1

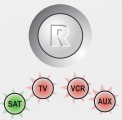
Press and hold RECOVER until all mode buttons light up.

2

(Your screen may be different)

If you see System Info, live television, or the standby screen, proceed to step 4. Otherwise, continue to step 3.

3



Press RECOVER again & wait until the mode lights stop flashing. If you see System Info, live television, or the standby screen, go to step 4. If not, repeat this step until you do.

4

Press SELECT to resume watching TV.

Remote Operation

SAT Mode

To use the features described in this section, make sure you are in SAT mode by pressing the SAT Mode button.

Note: *Some features may not be available depending on your receiver model.*

Volume & Mute Buttons
Control TV volume
Programming required (see S-4)

Receiver Power & TV Power
Top button turns the receiver on and off
Bottom button turns the TV on and off
Programming required (see S-4)

Receiver Menu
Access receiver features and settings

Themes
Search for programs using Themes

Recall
Go back to last channel viewed

Info
Display program info

Digital Video Recorder (DVR) Buttons
Pause live TV and play or record programming

Recover
Recovers satellite programming if your TV input or channel has changed

Picture-In-Picture (PIP) Buttons
Watch two separate programs at once
(in Single Mode if available on your receiver)

Format
Format the picture to the desired width to match the program you are viewing
(this feature varies by receiver)

Page Buttons
Page up/down in menus

Program Guide
Display current and future satellite program listings

Arrows/Select Buttons
Channel up/down, navigate through menus/guides and select a desired option

Browse
See what is on other channels while watching TV

View Satellite Programming
Exit out of any menu/guide and go back to viewing live TV

DISH
Explore interactive TV features

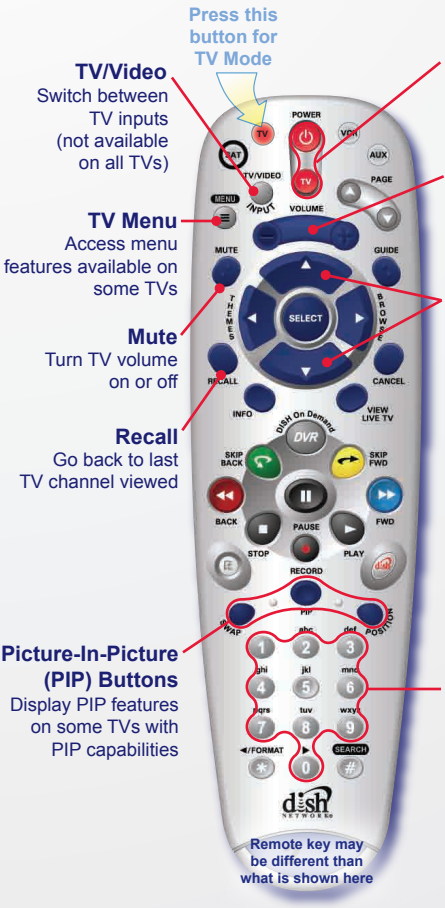
Number Buttons
Enter a channel number or select menu items

Search
Search for a program

Remote Operation

TV Mode

To use the features described in this section, make sure you are in TV mode by pressing the TV Mode button. Remote programming is required. See **S-4** for instructions.



Note: *Remote operation is different on DISH Network TVs. See your DISH Network TV User's Guide for proper operation.*

Remote Operation
VCR Mode

To use the features described in this section, make sure you are in VCR mode by pressing the VCR Mode button. You can use this mode to operate your DVD player instead of a VCR. Remote programming is required. See page 2 for instructions.

VCR/DVD Power & TV Power
Top button turns the VCR/DVD player on and off
Bottom button turns the TV on and off

TV/Video
Switch VCR between its TV & VCR mode

Back
Rewind a videotape or reverse a DVD

Stop
Stop playing or recording a videotape, or stop playing a DVD

Record
Record on a videotape

Up/Down Arrow Buttons
Channel up/down on VCR

Pause
Pause a videotape or DVD

FWD
Forward a videotape or DVD

Play
Play a videotape or DVD

Number Buttons
Enter a desired channel number on VCR

REMOTE CONTROL OVERVIEW

Use this full-function remote to control a variety of DISH Network receivers. Also, you can program the remote to control most of the popular brands of audio/video equipment like a TV, VCR, DVD player, or a second DISH Network satellite receiver. See *Programming for Other Equipment* on page 2.

Note: This remote control may have features not used by your receiver.

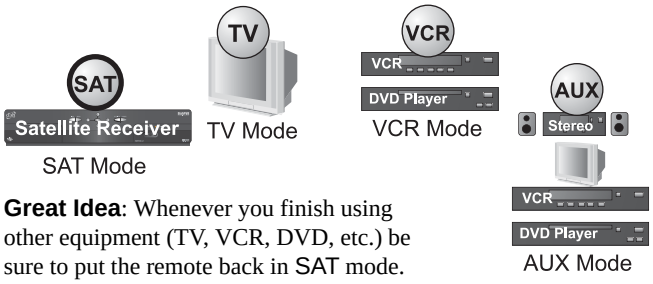
USING THE GUIDE

This guide makes it easy to set up and use your remote control. By now you've noticed that the pages at the beginning of this *User Guide* contain information on quick set up and remote control operation.

The rest of the guide contains in-depth information to help you get the most from your remote control, including controlling other equipment like TVs, VCRs, and DVD players.

REMOTE CONTROL MODES

Use the remote control's mode buttons to set the remote to the correct mode for the equipment. Be sure to program the remote to control other equipment as described on page 2.



Great Idea: Whenever you finish using other equipment (TV, VCR, DVD, etc.) be sure to put the remote back in SAT mode.

To change the mode, press the button for the equipment you want to control. The mode button lights for two seconds to show you've set the remote to that mode.

If you program the remote to control other equipment, refer to the following for remote control operation instructions:

- TVs, page S-8 (at the beginning of this guide).
- VCRs and DVD players, page S-9.
- DISH Network satellite receivers, page S-7.
- Stereo equipment uses only these buttons: SELECT (to change inputs), MUTE, VOLUME, and POWER.

How the Remote Communicates

Depending on how the remote is set up, the remote control may use UHF radio signals, IR signals, or both to control the receiver. However, only IR signals are used to control other equipment.

- IR signals travel short distances (up to 40 feet) and cannot go through walls or other solid objects. Point the remote control directly at the equipment you want to control, with no objects to block the signal path.
- UHF signals travel longer distances than IR signals and can go through walls and other solid objects. Because these signals travel so far, the receiver may respond to signals from other nearby remote controls. To handle this problem, you may want to change the remote and receiver addresses (see page 12).
- If you're set up to use UHF, make sure that the UHF remote antenna is attached to the receiver's back panel **REMOTE ANTENNA** input so it can receive the UHF remote signals.

Programming for Other Equipment

Page S-4 at the beginning of this guide shows you how to program the remote to control a TV. The following section uses a different method to program the remote to control a TV or other equipment (such as a VCR, DVD player, tuner, amplifier, or a second TV). You can program the remote by either following the instructions in *Programming Using Equipment Code Tables* on page 4, or the *Scanning for Equipment Codes* procedure described on page 6.

Combination Equipment (for example, TV/VCR)

When programming the remote to control combination equipment, such as a TV/VCR or a TV/DVD, program the remote control in one mode, and then repeat the procedure in the other mode. For example, to program the remote to control a Magnavox TV/VCR using code 887, follow the instructions to program the remote to control the TV using

code 887, and then repeat the instructions for the VCR using code 797. Put the remote in TV mode to use the TV or VCR mode to use the VCR.

LIMITED MODE

You can program your remote control in Limited Mode to keep from accidentally changing the channel on your TV or VCR. When Limited Mode is enabled, you cannot select TV mode. If you press the TV button while TV mode is programmed in Limited Mode, the TV button flashes and the SAT button lights, telling you cannot switch to TV mode. The remote then moves back to SAT mode.

When you use the remote to control your TV in Limited Mode, you are only able to use the POWER, MUTE, and VOLUME buttons to control your TV. Also, when you use the remote to control your VCR in Limited Mode, you are only able to use the POWER and VCR function buttons. The section *Programming Using the Equipment Code Tables* has a step that tells the remote control to go into Limited Mode. Also, a quick way to put the remote in Limited Mode is on page S-6.

Note: Limited Mode cannot be used with audio amplifiers.

FIXED CHANNEL MODE

You can program your remote control in Fixed Channel Mode to automatically set the TV and/or VCR to a given channel when you press either RECOVER or the SAT button.

SETTING (OR CHANGING) FIXED CHANNEL MODE FOR TV AND/OR VCR

1. Press and hold the TV or VCR mode button until all four mode lights illuminate.
2. Press the STAR key (*). Enter a channel, using two or three digits between 02 and 125. For example, to set channel 25, enter *25.
3. Press the POUND (#) key. The TV or VCR mode button flashes three times.

REMOVING FIXED CHANNEL MODE FOR TV AND/OR VCR

1. Press and hold the TV or VCR mode button until all four mode lights illuminate.
2. Press the STAR (*) key followed by two zeros (*00).
3. Press the POUND (#) key. The TV or VCR mode button flashes three times.

PROGRAMMING USING EQUIPMENT CODE TABLES

You can set up the remote to control other equipment using the equipment code tables listed on page 16 and the modes as shown on page 1. To control a receiver in AUX mode, see page 8.

	Instructions	Additional Information
1	Turn the equipment on.	Use the equipment's front panel buttons or its remote control.
2	Find the brand name of the equipment in the tables starting on page 16.	If the brand isn't listed, see *Scanning for Equipment Codes* on page 6.
3	Press and hold the mode button until all the other mode buttons light up, and then let go of the button. The mode button flashes.	For example, hold the TV mode button for a TV until all of the other mode buttons light. When you let go, TV mode button flashes.
4	*For AUX mode only.* Press 0 for a second TV, or 1 for a second VCR, or 2 for a tuner, or amplifier.	This step is for programming the kind of equipment that should be programmed in AUX mode. If you're not programming in AUX mode, skip to step 5.
5	Enter one of the three-digit equipment codes from the table using the number buttons.	The three-digit equipment code should be for the brand name of your equipment that you found in step 2.

	Instructions	Additional Information
6	If you want to program Limited Mode, press 1. If not, skip to step 7.	See *Limited Mode* on page 3 for more information.
7	Press POUND (#).	If you entered the code correctly, the mode button flashes three times.
8	Press POWER to turn off the equipment. If the equipment does not turn off, go to step 10.	If the code works, the equipment should turn off.
9	Turn the equipment back on and try some other buttons to make sure they work. If the code works for other buttons, stop here. **Note**: If you have programmed your remote in Limited Mode, only the MUTE and VOLUME buttons work.	For example, sometimes POWER works when other buttons don't.
10	If the code doesn't work, repeat steps 3 through 9 with another equipment code from the tables.	Try every code listed for your brand until one works for your equipment.
11	If you can't find a code that works, try *Scanning for Equipment Codes* that follows.	

SCANNING FOR EQUIPMENT CODES

	Instructions	Additional Information
1	Turn the equipment on.	Use the equipment's front panel buttons or its remote control.
2	Press and hold the mode button until all the other mode buttons light up, and then let go of the button. The mode button flashes.	For example, hold the TV mode button for a TV until all of the other mode buttons light. When you let go, TV mode button flashes.
3	*For AUX mode only.* Press 0 for a second TV, 1 for a second VCR, or 2 for a tuner, or amplifier. Then press the STAR (*) button.	This step is for programming the kind of equipment that should be programmed in AUX mode. If you're not programming in AUX mode, skip to step 4.
4	Press POWER.	This step puts your remote in the scan mode.
5	Press either the UP or DOWN ARROW repeatedly until the equipment turns off.	As you press the UP or DOWN ARROW, the remote tries each code in the memory to see if it can turn off your equipment. When the equipment turns off, you have found a code that might work. **Note**: The mode button for the equipment flashes rapidly eight times when you've scanned all the codes for that equipment.
6	Press POUND (#).	The mode button flashes three times if you have entered the code correctly. This step stores the code you found.

	Instructions	Additional Information
7	Turn the equipment back on and try some other buttons to make sure they work.	Press POWER to turn the equipment back on. Try some other buttons to make sure they work. Sometimes POWER works when other buttons don't.
8	If necessary, repeat this procedure until you've tried all the codes.	You may need to repeat the scan to find the best code for your equipment.
9	Once you find a code that works, consider using Limited Mode.	See page S-6, *Placing Your Remote in Limited Mode* for putting your remote in Limited Mode.

SWITCHING BETWEEN TV AND AMPLIFIER VOLUME CONTROL

When you set up the remote to control a TV, the MUTE and VOLUME buttons control the TV volume, even if your remote control is in SAT mode. However, if you want to use the AUX mode to control a tuner or amplifier that has a volume setting, you can set up the remote to control the tuner or amplifier's volume instead of the TV volume while your remote control is in SAT mode. Follow the instructions in the left column to switch controlling volume in AUX mode. To change back to controlling the TV volume in SAT mode, follow the instructions in the right column.

	Control Amplifier Volume		Control TV Volume
1	Press and hold the AUX mode button for three seconds, and then let go of it. The AUX mode button blinks.	**1**	Press and hold the TV mode button for three seconds, and then let go of it. The TV mode button blinks.
2	Press the POUND (#) button.	**2**	Press the POUND (#) button.

Control Amplifier Volume

3 Press the plus (+) side of the VOLUME button.

4 Press the 0 number button.

5 Press the POUND (#) button.

The AUX mode button flashes three times.

MAKE SURE THE REMOTE CONTROLS THE AMPLIFIER'S VOLUME:

6 Press the SAT mode button.

7 Press the plus (+) and minus (-) sides of the VOLUME button.

8 The equipment's volume changes and the AUX mode button lights instead of the TV mode button.

Control TV Volume

3 Press the plus (+) side of the VOLUME button.

4 Press the 0 number button.

5 Press the POUND (#) button.

The TV mode button flashes three times.

MAKE SURE THE REMOTE CONTROLS THE TV'S VOLUME:

6 Press the SAT mode button.

7 Press the plus (+) and minus (-) sides of the VOLUME button.

8 The TV's volume changes and the TV mode button lights instead of the AUX mode button.

PROGRAMMING THE REMOTE TO CONTROL A SECOND RECEIVER IN AUX MODE

If you have another DISH Network satellite receiver installed, you can use this remote in AUX mode to control it along with your new receiver. When you program the remote to control the other receiver, the remote sends out IR and UHF (not UHF Pro) signals to the receiver. You can program the remote to control any other DISH Network satellite receiver, except for following:

- TV2 on Duo 322, DuoDVR 522 (also known as DISH Player-DVR 522), DuoDVR 625 (also known as DISH Player-DVR 625), DISH Player-DVR 942, Duo ViP 222 (also known as ViP 222), DuoDVR ViP 622 DVR (also known as ViP 622 DVR) , and DuoDVR ViP 722 DVR (also known as ViP 722 DVR)
- DishPlayer 7100/7200

1 Turn on the other receiver. Use the SYSTEM INFO button on the front panel to open the System Info screen.

Note: If you aren't sure how to access the System Info screen or if there isn't a SYSTEM INFO button on the front panel of your receiver, check your receiver's *User Guide*.

Write down the address shown: _____

2. Press and hold the AUX button until all the other mode buttons light up, and then let go of the button. The AUX button flashes.
3. Press the 3 button.
4. Use the NUMBER PAD to enter the address you wrote in step 1.
5. Press POUND (#). The AUX button blinks three times.
6. Press RECORD to make sure the address in the remote matches the address on the receiver.

READING OUT THE REMOTE CONTROL CODES

These instructions explain how to check the remote control code you put in the remote control when you set it up. Be sure to write them in the spaces provided on the inside back cover.

	Instructions	Additional Information
1	Press and hold the mode button for the equipment you want the remote to control. When all the other mode buttons light up, let go of the mode button—that mode button should now be flashing.	For example, hold the TV mode button for a TV until all of the other mode buttons light. When you let go, the TV mode button flashes.
2	Press the POUND (#) button *twice*. The mode button flashes the number for each digit of the equipment code, with a pause between the groups of flashes. A quick flash is for zero.	For example, if the code is 570, the mode button flashes five times, pauses, flashes seven times, pauses, and quick flashes for zero.

Instructions	Additional Information
For AUX mode, the first group of flashes tells you what type of device the AUX mode controls, then the following flashes tell you each digit of the equipment code. A quick flash (zero) before the three-digit code is for a TV; one regular flash is for a VCR or DVD player; and two flashes is for a tuner or amplifier.	For example, if the TV code is 570, the AUX mode button flashes once quickly, pauses, flashes five times, pauses, flashes seven times, pauses, and quick flashes for zero.
For a satellite receiver programmed in AUX mode, the group of flashes tells you the address number.	For example, if the AUX mode button is set to control a satellite receiver with address 5, the AUX mode button flashes five times.

DISCRETE CODES FOR LEARNING REMOTES

Note: Discrete codes are only used by IR remotes (either the TV1 remote or a universal remote).

Remote control discrete On and Off IR commands are used by installers when programming macro commands into universal remotes. Using an On-only or Off-only command is more effective than a toggle On/Off command when trying to ensure the satellite receiver is reliably in one state or the other. To use discrete power commands, complete the following:

1. Program the DISH Network remote to the desired remote address (see *Changing the Remote and Receiver Address* in the next section).
2. Hold the SAT mode button until all mode buttons light, then release.
3. Press POWER (not TV POWER).
4. Press VOLUME UP for discrete power on, or VOLUME DOWN for discrete power off.
5. Press any other button when done to end this procedure.

AVOIDING REMOTE CONFLICTS

When your remote control uses UHF, you may experience interference from other nearby remotes. In situations where neighbors are near (apartments, townhouses, etc.), your receiver could be picking up signals from your neighbors' remotes. The instructions in this section describe how to avoid remote conflicts.

CHANGING THE REMOTE AND RECEIVER ADDRESS

One quick way to avoid remote conflicts is by changing the address on your remote and receiver. If you notice that your receiver is changing channels or opening menus but you're not using the remote control, a quick change of address should fix the problem.

1. Press SYSTEM INFO on the receiver's front panel. The System Info screen displays and shows the **Remote Address**.

   Note: If you aren't sure how to access the System Info screen or if there isn't a SYSTEM INFO button on the front panel of your receiver, check your receiver's *User Guide*.

   Write down the remote address of the UHF remote:

   _____

2. Press and hold SAT on your UHF remote control (associated with the TV which is having interference issues) for about three seconds, until all of the mode buttons light up, and then let go of SAT.
3. Use the NUMBER PAD to enter any number between 1 and 16, but not the one you wrote in step 1.
4. Press POUND (#). If you entered the address correctly, SAT flashes three times. Write down the number you entered in the space provided on the inside back cover.
5. Press RECORD. Make sure the **Remote Address** you see on the System Info screen is the same as the one you entered in step 3. If it isn't, the remote cannot control the receiver. Press RECORD a second time.
6. Select **Done** to close the System Info screen.

CHANGING THE UHF FREQUENCY USING THE A/B SWITCH—DISH PLAYER-DVR 942, DUO VIP 222, DUODVR VIP 622 DVR, AND DUODVR VIP 722 DVR ONLY

All receiver models, *except* the DISH Player-DVR 942, ViP 222, ViP 622 DVR, and ViP 722 DVR, must use switch position A or the remote does not control the receiver.

Your remote has a switch to change the UHF frequency that your remote control uses. It comes preset to the A position but you can change the setting to the B position to lessen the likelihood of any other UHF remote interfering with yours.

1. Remove the battery cover from the remote control.
2. Use a small screwdriver or a paper clip to carefully change the setting.
3. Put the battery cover back on the remote control.
4. Use the SYSTEM INFO button on the front panel to open the System Info screen.
5. Press RECORD on the remote control.
6. Make sure the remote address on the System Info screen shows the correct band information:
   - Switch Position A—**IR/UHF Pro Band A**
   - Switch Position B—**IR/UHF Pro Band B**

SETTING UP A TV1 UHF PRO REMOTE FOR THE DUODVR 522 AND DUODVR 625 ONLY

Use these special instructions only if you are going to use the green 1 UHF Pro key to control the TV1 side of your DuoDVR 522 or 625 (also known as DISH Player-DVR 522 or 625).

If you have a DuoDVR™ 522 or 625

and want to use UHF Pro with TV1, use this key:

When you are finished setting up the remote control, you'll be able to operate the TV1 side of your DuoDVR 522 or DuoDVR 625 from long distances.

1. Make sure the key is installed as described on pages S-1 and S-2.
2. Make sure the UHF Antenna is attached to the REMOTE ANTENNA input on the back of the receiver.

3. Using the receiver's front panel buttons, press MENU. Select the following on-screen items in this sequence:
   a. **System Setup**
   b. **Installation**
   c. **TV1 UHF Pro Setup**
4. Select **Enable** from the **TV1 UHF Pro Setup** screen.
5. Select **System Info** to open the System Info screen.

6 Use the ARROW buttons to move the highlight to the TV1 remote address (the **Rem Addr** box as shown below). This is important—if you do not move the highlight, your remote changes the receiver's TV2 remote address (the **Rem Addr** box) and causes your Remote Control 1 to control the TV2 side of your receiver.

Note: Highlight the **Rem Addr** (the lighter area in the graphic above) using the ARROW buttons on the remote.

7 Press the RECORD button on the green TV1 remote control you are setting up. If you get a warning that tells you to pick another address, continue on to the next step. If no warning appears, go to step 15 of this procedure.

8 Select **OK** using the front panel button to clear the warning message and return to the System Info screen.

9 On the remote control, press and hold the SAT mode button for about three seconds, until all the mode buttons light up, and then let go of the SAT button. The SAT mode button blinks.

10 Use the number buttons to enter any number from 1 to 16, except for the address shown for 2 on your screen.

Write down the number you entered: _____

11 Press the POUND (#) button. If you entered the address correctly, the SAT mode button flashes three times.

12 Highlight the **Rem Addr** using the ARROW buttons on the front panel of the receiver.

13 Press RECORD.

14 Make sure the System Info screen shows **UHF** and that this address matches the number you entered in step 10.

15 Using the remote, select **Done** to close the System Info screen. If nothing happens, use the front panel buttons to highlight the **Rem Addr**. Press RECORD, and then select **Done**.

EQUIPMENT CODES

These tables contain the manufacturer codes for programming the remote to control your TV, a VCR, DVD player, or audio amplifier. Every attempt has been made to include all codes. If your equipment brand is not listed or if the codes do not work, the remote may not control your equipment. In some cases codes may operate some but not all buttons shown in this guide.

TV CODES

Programming in AUX mode: Use these codes to program in TV mode; however, if programming in AUX mode, press 0 before entering the TV code.

Abex 730
Action 662
Admiral 521 605 675
Aiko 727
Akai 570 573 906 907 908
Alleron 682
A-Mark 620
Amtron 657
Anam National 509 541 620 651 657 698
AOC 505 506 519 520 573 620 627 652 653 654
Apex 743 744 745 757 814 815
Archer 620
Audiovox 620 657 662
Baycraft 536
Belcor 652
Bell & Howell 590 675 683
Bradford 657
Brockwood 627 652
Broksonic 562 748 752
Candle 506 523 525 536 627 652 654
Candle/Citizen 573
Capehart 519 627
Circuit City 627
Citizen 506 516 523 524 525 526 590 652 654 657 658 680 727
Colortyme 573 627 652 654
Concerto 523 652 654
Contec Cony 662
Contec/Cony 541 655 657 726
Craig 536 541 657 662 694
Crown 526 536 657
Curtis Mathes 506 516 526 573 590 641 645 650 652 654 658 680 683 703 708
CXC 541 657 662
Cytron 903 904
Daewoo 505 524 526 529 530 531 573 630 652 653 654 658 684 698 719 727 816
Daytron 526 627 652 654 658
Dell 772 773 774
Dimensia 645 650
DISH Network 722, 742, 763
Dixi 566 620
Dumont 501 627 652
Electrohome 526 573 651 652 654 656 709 728
Emerson 526 534 536 541 573 590 627 636 642 648 652 654 655 657 658 662 682 683 692 696 699 720 816
Envision 506 573 652 654
Fisher 542 590 683
Fortress 573
Fujitsu 534 682 694
Funai 534 541 657 662 682 694
Futuretech 541 657 694
GE 508 509 543 544 630 645 646 650 651 652 654 676 690 691 698 701 715 716 725 728 742 779 809 859
General Electric 627
Gibralter 501 652
Goldstar 505 523 526 545 546 566 573 652 653 654 655 656 658 693 730
Granada 627
Grand 627
Grunpy 657 682
Hallmark 627 652 654
Harman Kardon 561
Harvard 657
Hinari 534
Hisense 759
Hitachi 523 526 548 549 553 554 555 585 597 626 636 638 643 648 652 654 655 702 718 726 786 788 789 790 791 792 801 802
HP 911 912
IMA 657
Infinity 566
JBL 566
JC Penney 505 506 516 525 526 »

TV CODES (CONTINUED)

JC Penney (Continued) 543 546 631 645 646 650 652 653 654 658 676 680 690 691 701 725 726 728 730
Jensen 556 573 652 654
JVC 508 557 559 642 649 655 676 726 735 736 737 812 817
Kawasho 548 561 573 652 654
Kenwood 506 573 652 654 656
Kloss 561 610
Kloss Novabeam 657 698 723 724
KTV 526 541 573 657 658 662 696
LG 653 766
Lloyds 627
Lloytron 526
Loewe 566
Logik 675
Luxman 523 652 654
LXI 563 566 590 595 617 631 635 645 646 650 654 683 691 701 725
Magnasonic 573
Magnavox 506 520 525 536 566 567 568 573 610 652 654 656 723 724 729 762 818 887 888
Majestic 675
Marantz 506 566 573 652 654
Megatron 627 654
Memorex 590 627 653 654 675 683 720
MGA 504 505 506 542 571 573 627 652 653 654 656 728
Midland 501 646 658 676 725 730
Mitsubishi 504 505 542 570 571 572 573 597 623 627 652 653 654 656 705 728 787 799 804
Mitsui 769
Montgomery Ward 500 505 506 534 543 567 568 675
Motorola 521 605 651
MTC 505 506 516 523 573 627 652 653 654 680
Multitech 657
NAD 502 617 627 631 635 637 654
National 509
NEC 505 506 507 517 523 573 627 651 652 653 654 731 732
Nikkai 612
Nikko 654 727
Normandic 717
Novabeam 561
NTC 727
Nyon 701
Olevia 910
Onwa 541 657
Optimus 637
Optonica 521 605 607
Orion 694
Osaki 612
Panasonic 508 509 512 566 644 651 662 676 685 689 698 700 716 734 761 765 780 784 811 819 820 821 822 823 867 868 869 870 871 872 873 874 875 876 877 878 879 880 881 882 883 884 885 886 889 890 900
Philco 505 506 525 536 568 573 610 651 652 653 654 655 656 723 724 729
Philips 525 566 651 652 655 656 690 723 724 729 770 782 824 825 826 827 828 891 892 893 894
Philips Magnavox 782 826 827 828 829
Pilot 652 658
Pioneer 502 548 576 636 637 648 652 654 708
Polaroid 766
Portland 505 526 573 652 653 654 658 727
Price Club 680
Prism 676
Proscan 645 646 650 691 725 742 857
Proton 513 519 526 536 585 627 652 654 655
ProView 902
Pulsar 501 652
Quasar 508 509 651 676 698 700 860 861 862 895 896
Radio Shack 526 541 590 607 612 645 662 683 698
Radio Shack/Realistic 590 607 650 652 654 655 657 658 683 730
RCA 503 505 548 630 633 634 636 641 645 646 648 650 651 652 653 654 656 691 698 701 708 715 716 725 742 749 776 805 830 831 832 863 864
Realistic 590 645 683
Runco 501
Sampo 506 519 652 654 658 698 730 746
Samsung 505 506 516 523 526 566 573 612 627 647 652 653 654 655 656 658 680 704 717 730 738 755 833 858 897
Samwon 620
Sansui 754 834
Sanyo 542 590 652 683
SBR 566
Schneider 566
Scotch 654
Scott 526 534 541 600 652 654 655 657 662 682 696 701

TV CODES (CONTINUED)

Sears 523 534 542 563 590 595 601 604 617 627 631 635 645 646 650 652 654 656 682 683 688 691 703 725 726
Seimitsu 627
Sharp 521 526 585 605 607 628 629 652 654 655 658 739 740 741 777 794 803 835 836 898 913
Shogun 652
Signature 675
Silver 573
Simpson 525
Solavox 612
Sony 500 640 690 758 781 783 795 796 797 798 806 807 808 810 837 838 839 840 841 842 843 844 845
Soundesign 525 536 541 627 652 654 657 682
Spectricon 520 620
Squareview 694
SSS 505 541 573 652 657
Starlite 657
Supra 523
SVA 901 905
Sylvania 506 525 536 566 568 569 573 600 610 652 654 656 723 724 729 733 756 764
Symphonic 632 657 662 692 694 846
Tandy 521 605
Tatung 509 651 698
Technics 508 676
Techwood 523 573 652 654 676
Teknika 504 505 512 516 523 524 525 526 534 536 541 573 644 652 653 654 655 657 658 662 675 680 682 685 726 727
Tera 513
Thomas 627
Thompson 709
TMK 523 573 627 652 654
Toshiba 516 590 617 631 635 680 683 688 750 771 785 793 847 848 849 850 851 852 853 854 855 856 865 866 909
Totevision 526 658
Toyomenko 627
Universal 543 690
Vector Research 506
Victor 557
Video Concepts 570
Vidtech 505 573 627 652 653 654
Viewsonic 760
Vizio 766
Wards 536 573 607 645 650 652 653 654 656 675 682 690 715 723 724 729
White Westinghouse 816
Yamaha 505 506 573 652 653 654 656
York 627
Zenith 501 520 639 652 675 693 775 778 813 899
Zonda 620

VCR CODES

Programming in AUX mode: Use these codes to program in VCR mode; if programming in AUX mode, press 1 before entering the VCR code.

Adventura 588
Aiwa 588 622 623
Akai 513 515 516 517 518 568 682
American High 678
Amstrad 588
ASA 556
Asha 675
Audio Dynamics 592
Audiovox 676
Beaumark 675
Bell & Howell 581
Broksonic 559
Calix 676
Candle 534 594 675 676
Canon 554 678
Citizen 534 591 592 594 675 676
Colortyme 592
Craig 591 675 676
Curtis Mathes 554 592 594 605 607 675 678
Cybernex 675
Daewoo 534 547 559 588
DBX 592
Dimensia 607
Dumont 549
Dynatech 588
Electrohome 512 676
Electrophonic 676
Emerson 505 508 509 511 512 518 534 559 568 588 590 618 676 678
Finlandia 549
Finlux 549 556 588
Fisher 549 581 584 588 610
Fuji 678
Funai 588
Garrard 588

VCR CODES (CONTINUED)

GE 551 552 554 572 591 605 607 675 678
Go Video 557 558 620
Goldstar 592 594 676
Goodmans 585
Gradiente 588
Granada 549 581
Grundig 556
Harley Davidson 588
Harman Kardon 568 592
Headquarter 581
Hitachi 536 538 539 540 588 595 597 682
Instant Replay 678
ITT 518
JC Penney 554 581 591 592 594 595 675 676 678
JCL 678
Jensen 595 682
JVC 561 562 581 592 594 682
Kenwood 562 581 592 594 600 682
Kodak 676 678
LG 676
Luxor 518
Lloyd's 588
LXI 676
M. Wards 512 554 585 590 591
Maganvox 797
Magnavox 533 554 556 678 797 798
Magnin 676
Marantz 554 556 581 585 592 594 678
Marta 676
Matsushita 678
MEI 554 678
Memorex 533 549 554 566 581 585 588 675 676 678
MGA 512 567 568
MGN Technology 675
Midland 579
Minolta 595
Mitsubishi 512 562 567 568 570 595
Motorola 678
MTC 544 588 675
Multitech 579 588 675
Mutitech 591
NEC 562 581 592 594 682
Nikko 676
Noblex 675
Olympus 678
Optimus 676
Optonica 585
Panasonic 554 614 628 633 678 777 780 781 782 783 784 785 786 787 788 789 790 791 792 793 794 795 796 799 808 809
Pentax 592 595
Pentex Research 594
Perdio 588
Philco 554 678
Philips 554 556 585 678 801 802 803 804
Pilot 676
Pioneer 562 574 575 576
Proscan 605 607
Pulsar 533
Quarter 581
Quartz 581
Quasar 554 678 770 771 772 805 806
Radio Shack 512 607 610 676
Radio Shack/Realistic 581 584 588 675 676 678
Radix 676
Randex 676
RCA 518 525 591 595 605 607 615 649 675 678 773 774 775
Realistic 534 549 554 581 584 585 588 675 676 678
Ricoh 502
Runco 533
Salora 567 581
Samsung 515 517 534 579 591 675 755 807
Sanky 533
Sansui 544 562 682
Sanyo 549 581 583 675
SBR 556
Scott 508 534 559 590
Sears 549 581 584 595 610 676 678
Sharp 512 585 595 607
Shintom 595
Shogun 675
Singer 678
Sony 500 501 502 768 778
STS 678
Sylvania 554 556 567 588 678 756
Symphonic 588 594
Tandy 581 588
Tashiko 676
Tatung 594 682
Teac 588 594 682
Technics 554 633 678
Teknika 554 588 676 678
TMK 675
Toshiba 534 535 567 584 590 769 776
Totevision 591 675 676
Unitech 675
Vector Research 534 592
Victor 561 562
Video Concepts 534 568 592
Videosonic 591 675
Wards 534 588 595 675 676 678
XR-1000 588 678

VCR Codes (Continued)

Yamaha 581 592 594 682
Zenith 500 501 533 779

DVD Player Codes

Programming in AUX mode: Use these codes to program in VCR mode; if programming in AUX mode, press 1 before entering the DVD Player code.

Aiwa 634 694
Alpine 653
Apex 654 655 744 757 835 839
Archos 885
BOSE 758 811
Broksonic 656 752
Clarion 696
Classic 695
CyberHome 833
Cytron 904
Daewoo 657 859
Denon 697 699 700
EchoStar 722
Emerson 658
Fisher 659
Funai 658
GE 702 703
Go Video 692 693 822
GPX 704
Hitachi 660 705 706 707 740 823 860 668
JVC 689 711 850 861 862 863
Konka 637 638 753
Koss 745
Magnavox 661
Memorex 709
Mintek 710
Mitsubishi 767 867
Norcent 711
Oritron 723
Panasonic 639 663 699 714 715 716 734 765 813 840 841 855 856 868 869 870 871 872 873 882
Philips 766 874
Pioneer 665 719 812 876 877 878 879 880
Proscan 720
Qwestar 723
RCA 666 690 749 816 842 854
Sampo 724
Samsung 652 667 668 691 705 740 741 820 821 844 845 866 875 881
Sansui 725 754
Sanyo 643
Sharp 669 865
Sony 617 645 670 671 729 730 731 817 818 830 831 832 836 837 838 843 847 848 849 851 852 853 857 858 864 883 884
Sylvania 658 764 829
Teac 732
Technics 733
Techwood 664
Toshiba 616 646 672 735 736 814 815 819 825 826 827 828 834 846
Yamaha 737 739
Zenith 673 824

Tuner/Amplifier Codes

Programming in AUX mode: Press 2 before entering the tuner/amplifier code.

Aiwa 636 641 656 687 718 720 725 726
BOSE 761 780
Carver 653
Citizen 709
Denon 647 674 759 760 762 807 809 814 835
Fisher 653
GE 711
Goldstar 677 690
Harman International 640 751
Harmon Kardon 672
Hitachi 717
JBL 640

TUNER/AMPLIFIER CODES (CONTINUED)

JVC 637 703 725 786 827
Kenwood 676 691 726 728 774 795 828 829 830 831 832 840 842
Magnavox 654 705
Marantz 651 764 845
Nakamichi 671
NEC 716
Onkyo 642 660 662 678 785 788 790 791 792 796 801 846
Optimus 648 664
Panasonic 643 644 652 783 797 798 799 808 810 815 816 817 818 819 820 821 822 824 825 826 833 836 837 838 839
Pioneer 667 668 679 702 767 770 772 779 802 806 844
Proton 654 705
Quasar 652
RCA 635 638 704 727
Sharp 712 713 714 715
Sherwood 646 670
Sony 639 645 687 728 729 730 765 766 769 771 773 775 776 777 778 781 782 784 787 789 793 794 803 811 812 813
Soundmatters 763
Teac 684
Technic 652
Technics 643 644 652 768 804 805 843
Toshiba 710
Victor 703
Yamaha 663 730 731 732 733 823 834 841

TV/VCR COMBO CODES

Programming for combination equipment: Program the remote control in TV mode using the TV code and then in VCR mode using the VCR code.

	TV Code	VCR Code
Magnavox	887	797
	888	798
Philips	891	801
	892	802
	893	803
	894	804
Quasar	860	770
	861	771
	862	772
	895	805
	896	806
RCA	863	773
	864	774
Samsung	755	755
	897	807
Sylvania	756	756

TV/DVD Combo Codes

Programming for combination equipment: Program the remote control in TV mode using the TV code and then in VCR mode (or AUX—press 1 before entering the DVD code) using the DVD code.

	TV Code	DVD Code
Apex	757	757
Broksonic	752	752
Cytron	904	904
Panasonic	734	734
	765	765
RCA	749	749
Sansui	754	754
Sylvania	764	764
Toshiba	865	814
	866	815

TV/VCR/DVD Combo Codes

Programming for combination equipment: Program the remote control in TV mode using the TV code, then in VCR mode using the VCR code, and then DVD in AUX mode (press 1 before entering the DVD code) using the DVD code.

	TV Code	VCR Code	DVD Code
Panasonic	900	810	882

TV/VCR/Tuner Combo Codes

Programming for combination equipment: Program the remote control in TV mode using the TV code, then in VCR mode using the VCR code, and then tuner in AUX mode (press 2 before entering the tuner code) using the tuner code.

	TV Code	VCR Code	Tuner Code
Panasonic	867	796	797
	868	799	798
	869	808	799
	870	780	839
	871	781	838
	872	782	837

Table continues on next page

TV/VCR/Tuner Combo Codes (Continued)

	TV Code	VCR Code	Tuner Code
Panasonic	873	783	836
	874	784	833
	875	785	826
	876	786	825
	877	787	824
	878	788	822
	879	789	821
	880	790	820
	881	791	819
	882	792	818
	883	793	817
	884	794	816
	885	795	815
	889	809	808

VCR/DVD Combo Codes

Programming for combination equipment: Program the remote control in VCR mode using the VCR code and then DVD in AUX mode (press 1 before entering the DVD code) using the DVD code.

	VCR Code	DVD Code
Go Video	No Code	692
	No Code	693
	No Code	822
JVC	No Code	689
RCA	No Code	690
Samsung	No Code	667
	No Code	691
	No Code	820
	No Code	821
Sony	778	817
	No Code	818
	768	No Code
Toshiba	No Code	219
Zenith	779	No Code

TROUBLESHOOTING

What's Happening	What's Wrong	What You Can Do
While performing a remote control procedure, the remote control stops working.	If you don't press a button for 20 seconds in a programming sequence, the remote shuts off its programming function.	Start over again.
You cannot find the key(s) shown on page S-1.	The keys have two sides.	Turn the keys over until you find the correct key.
When you press a button on the remote control, the equipment doesn't do what you expect.	• The remote may not be in the mode for the equipment you want to control.	• Press the correct mode button to set the remote to the mode for the equipment you want to control.
	• The remote control needs to be pointed right at the TV (or other equipment).	• The remote control uses IR signals to control all equipment except for the receiver (when using UHF). IR signals travel only 40 feet or less and can't go through walls or other solid objects. You must point the remote control right at the equipment, with no objects to block the signal path.
	• The remote control may be missing batteries, the batteries in the remote may be inserted the wrong way, or maybe the batteries are weak or dead.	• If the batteries are missing or dead, put fresh AAA-size batteries in. If the remote has fresh batteries, check whether you put them in the right way. If you didn't, take them out and put them in the right way.
	• The remote isn't set up to control the equipment.	• Make sure you set up the remote to control all the equipment you want to use. See *Program the Remote to Control Your TV* on page S-4 and *Programming for Other Equipment* on page 2.
The receiver does things even though you didn't press any remote control buttons.	UHF signals from a neighbor's remote may be controlling your receiver.	See *Avoiding Remote Conflicts* on page 12 for instructions to correct this problem.
Your picture is snowy (or blue or black).	You have accidentally changed the channel on your TV.	Make sure your TV (and VCR if connected) is tuned to the correct channel. Also try using the RECOVER button as described on page S-6.

What's Happening	What's Wrong	What You Can Do
Your remote control isn't working	• The remote control is in the wrong mode. • You might be using the wrong remote control (TV1 or TV2). • Your batteries are worn out. • The remote control's A/B switch is in the wrong position.	• Make sure the remote control is in the correct mode. For example, if you want to use the satellite receiver, put the remote control in SAT mode (see *Remote Control Modes* on page 1). • Make sure you are using the correct remote control (TV1 or TV2) for your locations (multi-room receivers only). • Change the batteries as described on page S-2. • Check the A/B switch setting as described on page 13. ⚠ For all receivers, *except* for the DISH Player-DVR 942, ViP 222, ViP 622 DVR, and ViP 722 DVR, leave the A/B switch in the A position.
When you press the remote control MUTE or VOLUME button, nothing happens.	• The remote control may not be set up. • Maybe you're trying to control TV volume but you set up the remote to control a tuner or amplifier in AUX mode.	• See *Programming the Remote to Control Your TV* on page S-4 and *Programming for Other Equipment* on page 2. • Set up the remote to control *either* TV volume *or* tuner/amplifier volume, whichever you want. See page 7.
Your UHF Pro remote control does not work well from far away.	You may be experiencing interference from objects near your receiver antenna.	• Make sure the UHF antenna is connected to the receiver and not touching anything else. • Vary the tilt angle of the receiver's UHF antenna. Locate the UHF antenna tip away from other electronics equipment or metal surfaces, even if separated by wooden shelving. • Move the receiver to different locations. For best results, place the receiver as high as possible, above all other equipment in your entertainment center. • Place the UHF antenna outside the entertainment center by using a coaxial cable to connect it to the receiver. • Move any nearby off-air antenna away from the UHF remote antenna. Do not place an off-air antenna on your receiver.
Your PIP (Picture-In-Picture) button isn't working.	• Your receiver doesn't use PIP. • Your receiver isn't in Single Mode.	• Upgrade to a receiver with this feature. • Press the MODE button on the front panel (if available).

LIMITED WARRANTY

This *Limited Warranty* is a legal document. Keep it in a safe place. Remember to keep your *Sales Receipt* for warranty service. We will consider any items you return without a copy of the *Proof of Purchase* to be out of warranty.

This warranty extends only to the original user (“you,” “your”) of the DISH Network remote control and is limited to the purchase price of the remote control. DISH Network and its affiliated companies (“we,” “our,” “us”) warrant this remote control against defects in materials or workmanship as follows.

For one year from the original date of purchase, if we find the remote control is defective subject to the limits of this warranty, we will replace the remote at no charge for parts or labor. We warrant any such work done against defects in materials or workmanship for the remaining part of the original warranty period.

This warranty does not cover installation of the DISH Network System; consumer instruction; physical set up or adjustment of any consumer electronic equipment; remote control batteries; signal reception problems; loss of use of the equipment; unused programming charges due to equipment malfunction; cosmetic damage; damage due to lightning, electrical or telephone line surges, fire, flood, or other acts of Nature; accident; misuse; abuse; repair or alteration by other than our factory service; negligence; commercial or institutional use; improper or neglected maintenance; equipment sold AS IS or WITH ALL FAULTS; equipment removal or reinstallation; shipping damage if the equipment was not packed and shipped in the manner we prescribe; nor equipment purchased, serviced, or operated outside the contiguous United States of America.

REPLACEMENT AS PROVIDED UNDER THIS WARRANTY IS YOUR EXCLUSIVE REMEDY. WE SHALL NOT BE HELD LIABLE FOR ANY INCIDENTAL OR CONSEQUENTIAL DAMAGES FOR BREACH OF ANY EXPRESSED OR IMPLIED WARRANTY ON THIS DEVICE, NOR FOR ANY INCIDENTAL OR CONSEQUENTIAL DAMAGE RESULTING FROM THE USE OF, OR INABILITY TO USE, THIS DEVICE. UNDER NO CIRCUMSTANCES SHALL OUR LIABILITY, IF ANY, EXCEED THE PURCHASE PRICE PAID FOR THIS DEVICE. EXCEPT TO THE EXTENT PROHIBITED BY APPLICABLE LAW, ANY IMPLIED WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE ON THIS DEVICE IS LIMITED IN DURATION TO THE DURATION OF THIS WARRANTY. WE RESERVE THE RIGHT TO REFUSE TO HONOR THIS WARRANTY IF WE DETERMINE ANY OF THE ABOVE EXCEPTIONS TO HAVE CAUSED THIS DEVICE NOT TO HAVE PERFORMED PROPERLY. THIS WARRANTY SHALL BE VOID IF ANY FACTORY-APPLIED IDENTIFICATION MARK, INCLUDING BUT NOT LIMITED TO SERIAL OR CONDITIONAL ACCESS NUMBERS, HAS BEEN ALTERED OR REMOVED. THIS WARRANTY SHALL ALSO BE VOID IF THE DEVICE HAS BEEN OPENED BY AN UNAUTHORIZED PERSON (with the exception of opening the battery cover).

This warranty gives you specific legal rights which may vary from state to state. Some states do not allow the exclusion or limitations of incidental or consequential damages, or allow limitations on the duration of an implied warranty, so those limitations may not apply to you.

DISH NETWORK'S EXCHANGE PROGRAMS

DISH Network offers two options if you need to replace your remote control; the Advanced Exchange Program and the Post Receipt Exchange Program.

Advance Exchange Program

The Advanced Exchange Program allows you to have a replacement remote shipped immediately to you. Depending upon where you live, the remote should arrive within 3 to 5 business days. You will not have to return your defective remote to DISH Network using this program.

A shipping charge will be applied for shipping the replacement remote. This is a one-time fee based on DISH Network's competitive bulk shipping rates (additional charges may apply outside the continental U.S.). This fee will be charged to your billing account or valid credit card.

Post Receipt Exchange Program

The Post Receipt Exchange Program does require that you send DISH Network the defective remote control at your cost to determine if the equipment is covered under warranty. To provide faster service, upon receipt of your equipment you will be shipped a replacement. Your original equipment will not be available for return.

If your equipment is not covered under warranty and can be repaired, your billing account or credit card will be charged the standard repair fee for the replacement. If damage to the defective equipment is found, which DISH Network in its sole discretion determines has voided the warranty, or makes the equipment unrepairable, your billing account or credit card will be charged the market price of the replacement.

ACCESSORY WARRANTY

An accessory is any DISH Network branded equipment, displaying the DISH Network logo, excluding the receiver, Smart Card, cables and hookups, and non-mechanical components. A one-year warranty becomes effective upon the activation of the DISH system or date of purchase, if bought separately. A proof of purchase is required to verify the purchase date. If an accessory has an expired warranty, no exchange will be issued. You may purchase replacement accessories from DISH Network or your local retailer.

IF YOU NEED HELP

1. Review this *User Guide*.
2. See *Troubleshooting* on page 24.
3. Call the Customer Service Center at 1-800-333-DISH (3474). Have the date of purchase and your customer account number ready.
    a. If the representative finds you should return the remote control, you'll get a telephone number to call for a Return Authorization (RA) number. Before shipping any equipment to us, you must get a Return Authorization number.
    b. You must package returned equipment the right way. Follow the instructions the representative gives you.
    c. Write the RA number in large, clearly visible characters on the outside of the shipping box used to return the equipment. To avoid confusion and misunderstandings, we will return shipments without an RA number clearly visible on the outside of the box to you at your cost.
    d. We will:
        - Check the remote control, including whether it is covered under the warranty.
        - Replace any remote we find is defective with a new or refurbished remote, if the defective remote is covered under the warranty. We will ship the replacement remote at our expense.
        - If a defective remote is not covered under the warranty, we will tell you. We may assess you a flat rate charge for a replacement remote, including shipping and insurance.

REGULATORY FACTORS

This device complies with Part 15 of FCC Rules. Operation is subject to the following two conditions:

1. this device may not cause harmful interference, and
2. this device must accept any interference received, including interference that may cause undesired operation.

Changes or modifications to this device may void your authority to operate this equipment.

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Re-orient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.Consult the dealer or an experienced radio/TV technician for help.

PUBLISHING INFORMATION

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The information in this Guide may change without notice. Revisions may be issued to tell you about such changes.

You should address comments or questions about this User Guide to techpubs@echostar.com or

Technical Publications, EchoStar Technologies Corporation, 90 Inverness Circle East, Englewood, Colorado 80112.

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Reference Tables

Write down your remote address, channel numbers/inputs, TV, VCR, DVD player, and stereo equipment codes as you program them for future reference.

Remote Address

Channel or Input for Satellite Programming

If you enter a “1” as the last number of your code, your remote is in Limited Mode (see page 3 for more details).

TV

TV Code

1 (Optional)

VCR

VCR/DVD Player Code

1 (Optional)

AUX

Auxiliary Equipment Code

1 (Optional)

To read out your remote codes, see page 9 for instructions.

For all your customer needs,
call the Customer Service Center
at 1-800-333-DISH(3474)

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